

REMARKS

In the Non-Final Office Action dated January 13, 2006, and the Notice of Non-Compliant Amendment dated May 19, 2006, the Examiner has requested corrections and clarifications. Examiner has pointed out important issues with the previous claims submitted. We thank Examiner for making a through study and excellent comments. We agree Examiners views. We have responded and corrected all the issues Examiner has kindly and effectively pointed out. Please find our response below.

Claim Rejections - 35 USC § 112

Claims 22-23, 28-34, 39, 44-46, 48-49, 53 and 58-93 were rejected. We have amended the independent claims 22, 28-29, 39, 46, 53 and 59 to correct and clarify the issues noted by Examiner. Peak hold circuit and comparator circuit are now coupled to the processing circuit, which is correct. The multiplexer is shown as ABUS in Figures 1 and 12. All the outputs are output one at a time on the analog bus called ABUS, which is a multiplexer. Output of peak hold is connected to the ABUS. The time difference measurement circuit is shown in Figure 1 with inputs 31 and 32 and output 35 and in Figure 12 as time stamp circuit 106. Pole zero cancellation circuit is in Figure 1 inside analog channel 11 and Figure 11 after low noise high linearity integrator and coupled with the differentiator.

Claim 48 is modified to match the correction made in Claim 29, which now uses at least one comparator, which is correct.

Claims 58 and 59 are corrected.

New claims 94-111 are added to further clarify the invention.

Reviewing the Amendment filed on November 8, 2005, Applicant discovered that two new claims both bearing the number 67 were added. In the Amendment filed on May 15, 2006 Applicant canceled both claims and again presented them as new claims 111 and 112. In this paper they are now 112 and 113. Applicant appreciates the Examiner's solution of renumbering the claims after 67 to better account for all claims.

All the objected independent and dependent claims are either corrected or explained. New claims are added to clarify the invention. Therefore, applicant respectfully requests that all the claims are now allowable.

In view of the foregoing, it is respectfully submitted that the application is now in condition for allowance, and early action in accordance therewith is requested. In the event there is any reason why the application cannot be allowed in this current condition, it is respectfully requested that the Examiner contact

the undersigned at the number listed below to resolve any problems by Interview or Examiner's Amendment.

Respectfully submitted,



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